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	Application No.	Applicant(s)	
No. Co. of Alleger Land	09/648,610	WILHELM, DIANA JOAN	
Notice of Allowability	Examiner	Art Unit	
	Min Jung	2663	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to	plication. If not included will be mailed in due course.	
1. This communication is responsive to <u>RCE filed 2-1-05</u> .			
2. The allowed claim(s) is/are 1-21, and 23-51 (renumbered a	<u>as 1-50)</u> .		
3. $\boxtimes$ The drawings filed on <u>28 August 2000</u> are accepted by the	Examiner.		
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> <li>2. ☐ Certified copies of the priority documents have</li> <li>3. ☐ Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	been received. been received in Application No		n the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requiremen	nts
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			OF
6. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) ☐ including changes required by the Notice of Draftspers		948) attached	
1)  hereto or 2)  to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	ffice action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the drawir ne header according to 37 CFR 1.121(c	igs in the front (not the back) of	f
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I			
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	<ol> <li>Interview Summary Paper No./Mail Dat</li> </ol>	atent Application (PTO-152) (PTO-413), e nent/Comment	
Paper No./Mail Date 4.  Examiner's Comment Regarding Requirement for Deposit	<u>_</u>	nt of Reasons for Allowance	
of Biological Material	9. Other	into i Neasons for Allowance	

Application/Control Number: 09/648,610

Art Unit: 2663

## **REASONS FOR ALLOWANCE**

Page 2

1. The following is an examiner's statement of reasons for allowance: All the claims are allowable over the prior art of record because prior art fails to teach or fairly suggest i) a method and a system for setting up a connection through a connection-oriented network between a sink node and a multicast tree, the multicast tree being coupled to the connection-oriented network via an ingress node, and the sink node being coupled to the connection-oriented network via an access module, the method comprising the steps of identifying the access module through which the sink node is coupled to the connection-oriented network; sending a message to the access module requesting that the sink node be connected to the multicast tree; grafting a leaf to the multicast tree at the access module to connect the sink node to the multicast tree; and merging multicast packets into an existing service connection for the sink node, ii) an Internet Protocol Service Gateway adapted to reduce duplication of multicast traffic through a connection oriented network, the IPS GWY comprising means to perform the functions recited above, iii) an access module for a connection oriented network adapted to enable grafting of a connection between a sink node and a multicast tree, the access module being coupled to the connection oriented network and the sink node, the access module comprising means for grafting a leaf to the multicast tree to connect the sink node to the multicast tree, and the access module comprises any one of a digital subscriber line access multiplexer; cable headend; wireless headend; satellite base station; network side of customer premise equipment; and optical line termination, and iv) a method of

providing multicast service delivery to an end-user of connection oriented access services served by an access module connected to a connection oriented network, comprising the steps of: setting up a separate connection between an access module serving a plurality of the end-users and gateway for delivering multicast packets from a source network, to permit the multicast packets to be transferred across the connection oriented network independently of any end-user virtual channel supported by the access module; and merging the multicast packets with other Internet Protocol traffic on the end-user VC at the access module, to deliver the multicast packets to the end-user.

Note, that the term "connection oriented network" recited in the claims is understood and interpreted to be referring to ATM network described in the specification since ATM the only type of connection oriented network described in the specification.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Min Jung whose telephone number is 571-272-3127.

The examiner can normally be reached on Monday, Thursday, Friday 7:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on 571-272-3139. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 09/648,610 Page 4

Art Unit: 2663

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MJ March 7, 2005 Min Jung

Primary Examiner